



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,998	03/19/2004	Kevin R. Powell	M61.12-0603	8938

27366 7590 06/04/2007  
WESTMAN CHAMPLIN (MICROSOFT CORPORATION)  
SUITE 1400  
900 SECOND AVENUE SOUTH  
MINNEAPOLIS, MN 55402-3319

EXAMINER

AZAD, ABUL K

ART UNIT	PAPER NUMBER
----------	--------------

2626

MAIL DATE	DELIVERY MODE
-----------	---------------

06/04/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/804,998

Applicant(s)

POWELL ET AL.

Examiner

ABUL K. AZAD

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 28 and 29 is/are allowed.
- 6) ☒ Claim(s) 1,3-14,20-27 and 30-35 is/are rejected.
- 7) ☒ Claim(s) 2,15-19 and 36-40 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. Claims 1-40 are pending in this Office Action.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 20-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As per dependent claim 20, the applicant fails to particularly point out and distinctly claim the subject matter of a language processing system.

4. Claims 20-27 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: description of a language processing system comprising the computer readable medium of claim 2.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 3-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Penteroudakis et al. (US 5,995,922).

As per claim 1, Penteroudakis teaches, "a computer readable medium having a lexicon for storing word information and adapted for use by a language processing system, the lexicon comprising a plurality of entries, each entry corresponding to a word entered in the lexicon", wherein each entry comprises:

"a first data field comprising spelling information for an entered word" (Fig. 30);

"a second field comprising part of speech information associated with the entered word" (Fig. 31, elements 3106, 3108 and 3111); and

"a third field comprising lemma delta information associated with the entered word" (Fig. 32).

As per claim 3, Penteroudakis teaches, "wherein the spelling information comprises an identification value corresponding to the entered word" (col. 12, lines 1-12).

As per claim 4, Penteroudakis teaches, "wherein the first field further comprises dynamic segmentation information associated with the entered word" (col. 11, lines 12-37).

As per claim 5, Penteroudakis teaches, "wherein the dynamic segmentation information comprises information for determining whether the entered word can be mapped to at least two separate lexical entries to recognize a valid compound term in a selected language" (col. 11, lines 12-37).

As per claim 6, Penteroudakis teaches, "wherein the first field comprises up to 4 bytes of storage space" (inherent in spelling with the letter, at col. 12, lines 1-13).

As per claim 7, Penteroudakis teaches, "wherein the part of speech field comprises a part of speech for the entered word" (Fig. 31).

As per claim 8, Penteroudakis teaches, "wherein the part of speech field comprises a plurality of parts of speech associated with the entered word" (Fig. 31).

As per claim 9, Penteroudakis teaches, "wherein the part of speech field comprises up to four parts of speech, wherein each part of speech occupies up to 1 byte of storage space" (inherent in part of speech field at Fig. 31).

As per claim 10, Penteroudakis teaches, "further comprising an intermediate indexes table accessible by the language processing system, the intermediate indexes table comprising probability information for each of the parts of speech associated with the entered word" (col. 14, lines 48-63).

As per claim 11, Penteroudakis teaches, "wherein the lemma delta information comprises transformation information associated with the entered word, the transformation information comprising information related to converting the entered word into a second word" (col. 14, lines 6-24).

As per claim 12, Penteroudakis teaches, "wherein the second word is a lemma corresponding to the entered word" (col. 11, lines 12-37).

As per claim 13, Penteroudakis teaches, "wherein the transformation information comprises an op code and an argument value" (col. 11, lines 12-37).

As per claim 14, Penteroudakis teaches, "wherein the transformation information comprises up to four op codes and corresponding argument values" (col. 11, lines 12-37).

As per claims 30-35, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1, 3-14.

***Allowable Subject Matter***

7. Claims 28 and 29 are allowed over the prior art of record.
8. Claims 2, 15-19, 36-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Contact Information***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Abul K. Azad** whose telephone number is **(571) 272-7599**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Patric Edouard**, can be reached at **(571) 272-7603**.

Any response to this action should be mailed to:

**Commissioner for Patents**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**


Or faxed to: **(571) 273-8300**.

Hand-delivered responses should be brought to **401 Dulany Street, Alexandria, VA-22314** (Customer Service Window).

Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 27, 2007



Abul K. Azad  
Primary Examiner  
Art Unit 2626